## CV-67 Engine Room Representative Hot & Cold Checks/Tests

| DAMAGE CONTROL  | IA | LOA | 1 MMR | 4 MMR | 2 MMR | 3 MMR |
|---|----|-----|-------|-------|-------|-------|
| Halon MRC Q-1R demonstration                                  | X  | X   |       |       |       |       |
| Halon MRC 18M-3R demonstration                                | X  | X   |       |       |       |       |
| Halon bottle cali stickers, pressure, piping/nozzle integrity | X  | X   |       |       |       |       |
| Halon actuation station integrity (local and remotes)         | X  | X   |       |       |       |       |
| AFFF bilge sprinkling piping/nozzle integrity                 | X  | X   |       |       |       |       |
| AFFF hosereel/nozzle operation/activation stations            | X  | X   |       |       |       |       |
| AFFF space cutout valves locked open                          | X  | X   |       |       |       |       |
| Ellison door closure/Escape trunk lighting/integrity          | X  | X   |       |       |       |       |
| MAIN ENGINES  | IA | LOA | Nr 1  | Nr 4  | Nr 2  | Nr 3  |
| Three point check   | X  | X   | 111 1 | 111 4 | 111 2 | 111 5 |
| Low Pressure Alarm  | X  | X   |       |       |       |       |
| Standby/Emergency lube oil pump auto-start                    | X  | X   |       |       |       |       |
| Lube oil Pump Sequencing                                      | X  | X   |       |       |       |       |
| Unloader operation  | X  | X   |       |       |       |       |
| Operation of turning gear and shaft locking device            | Λ  | X   |       |       |       |       |
| Guarding valve operation                                      | X  | X   |       |       |       |       |
| Cycle ahead and astern throttle through full travel           | X  | X   |       |       |       |       |
| Wrong direction alarm   | X  | X   |       |       |       |       |
| EOT and ROT transmitter operation                             | 71 | X   |       |       |       |       |
| Operation of gland exhaust fan                                | X  | X   |       |       |       |       |
| Gland seal regulator in parameter                             | X  | 7.1 |       |       |       |       |
| Vent fog precipitator operation                               | X  | X   |       |       |       |       |
| Inspect lube oil sample, sump level                           | X  | X   |       |       |       |       |
|   |    |     |       |       |       |       |
| SHIP'S SERVICE TURBINE GENERATOR                              | IA | LOA | 1A    | 1B    | 3A    | 3B    |
| Manual trip   | X  | X   |       |       |       |       |
| Low lube oil trip   | X  | X   |       |       |       |       |
| Back pressure trip  |    | X   |       |       |       |       |
| Low lube oil alarm  | X  | X   |       |       |       |       |
| Operation of elect lube oil pump and manual lube oil pump     | X  | X   |       |       |       |       |
| Lube oil strainer spray shield integrity, plug cock leakage,  | X  | X   |       |       |       |       |
| differential pressure, interlocks, SICLOS                     | V  | V   |       |       |       |       |
| Alarm panel   | X  | X   |       |       |       |       |
| Inspect lube oil sample, sump level, dipstick markings        | X  | X   |       |       |       |       |
| Rotor position, bearing temps, oil flow through SFIs          | X  | X   |       |       |       |       |
| Operation of Aux Circ Pump and Aux Cond Pump                  | X  | X   |       |       |       |       |
| Over-speed Trip (manual trip must be demonstrated first)      | X  |     |       |       |       |       |
| Reverse power relay trip operation                            | X  |     |       |       |       |       |
| Governor high and low speed stops (generator not overspeed    | X  |     |       |       |       |       |
| before reaching the high speed stop)                          |    |     |       |       |       |       |

Legend: X - Demonstrate O-Observe.

Check is not required or does not apply.

Airbox telltale drains, temp alarms

X

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| MAIN ENGINE LUBE OIL STRAINERS                               | IA | LOA | Nr       | 1  | Nı  | 4   | Nı  | r 2 | N   | r 3      |
|--|----|-----|----------|----|-----|-----|-----|-----|-----|----------|
| SICLOS (verify strainer basket integrity; vent, drain,       | X  | X   |          |    |     |     |     |     |     |          |
| equalizing valves operation; plug cock leakage; shifting     |    |     |          |    |     |     |     |     |     |          |
| interlock device; differential pressure)                     |    |     |          |    |     |     |     |     |     |          |
| Spray shield integrity                                       | X  | X   |          |    |     |     |     |     |     |          |
| LUBE OIL PURIFIERS   | IA | LOA | Nr       | 1  | Nı  | 4   | Nı  | r 2 | N   | r 3      |
| Operation within parameters                                  |    |     |          |    |     |     |     |     |     |          |
| Efficiency test  |    |     |          |    |     |     |     |     |     |          |
| MAIN CIRCULATING WATER SYSTEM                                | IA | LOA | Nr       | 1  | Nı  | · 4 | Nı  | r 2 | N   | r 3      |
| Sea valve automatic/remote operation                         | X  | X   |          |    |     |     |     |     |     |          |
| Emergency bilge suction valve operation                      |    | X   |          |    |     |     |     |     |     |          |
| Inspect lube oil sample, sump level, dipstick markings       | X  | X   |          |    |     |     |     |     |     |          |
| Pump SLG for freedom of movement                             | X  | X   |          |    |     |     |     |     |     |          |
| Pump SLG operation   | X  |     |          |    |     |     |     |     |     |          |
| Pump low lube oil trip restart (secure steam to operating    | X  |     |          |    |     |     |     |     |     |          |
| pump, when pump stops, reapply steam. Pump should <u>not</u> |    |     |          |    |     |     |     |     |     |          |
| start without resetting the trip handle)                     |    |     |          |    |     |     |     |     |     |          |
| STEAM LO PUMPS   | IA | LOA | Nr       | 1  | Nı  | 4   | Nı  | r 2 | N   | r 3      |
| Speed Limiting Governor freedom of movement                  | X  | X   |          |    |     |     |     |     |     |          |
| Position of overload nozzle                                  | X  | X   |          |    |     |     |     |     |     |          |
| Turn pump by hand  |    | X   |          |    |     |     |     |     |     |          |
| SLOP idle set point  | X  |     |          |    |     |     |     |     |     |          |
| Speed Limiting Governor at set point                         | X  |     |          |    |     |     |     |     |     |          |
| Constant pressure regulator operation                        | X  |     |          |    |     |     |     |     |     |          |
| Pump running in parameters                                   | X  |     |          |    |     |     |     |     |     |          |
| Inspect lube oil sample, sump level, dipstick markings       | X  | X   |          |    |     |     |     |     |     |          |
| MAIN CONDENSATE PUMPS  | IA | LOA | 1A       | 1B | 4A  | 4B  | 2A  | 2B  | 3A  | 3B       |
| Run direction of rotation                                    | X  | X   |          |    |     |     |     |     |     |          |
| Start/stop, high/low speed controller function               | X  | X   |          |    |     |     |     |     |     |          |
| ~  |    |     | <u> </u> |    |     |     |     | I   |     | <u> </u> |
| MAIN SWITCHBOARDS & DISTRIBUTION PANELS                      | IA | LOA | Nr 1     | 1S | ī   |     |     |     | Nr  | 3S       |
| Ground check   | X  | X   |          |    |     |     |     |     |     |          |
| Rubber boots, face shield, shorting probe                    | X  | X   |          |    |     |     |     |     |     |          |
| Indicator lights   | X  | X   |          |    |     |     |     |     |     |          |
| ABT/MBT  | IA | LOA | 1 MN     | ИR | 4 M | MR  | 2 M | MR  | 3 M | IMR      |
| ABT operation in both automatic and manual modes             | X  | X   |          |    |     |     |     |     |     |          |
| Shift MBT, check manual interlock (both sources available)   | X  | X   |          |    |     |     |     |     |     |          |
| SALINITY ALARM PANEL   | IA | LOA | 1 MN     | ИR | 4 M | MR  | 2 M | MR  | 3 M | IMR      |
| Salinity panel meter calibration test                        | X  | X   |          |    |     |     |     |     |     |          |
| Salinity panel alarm set points                              | X  | X   |          |    |     |     |     |     |     |          |
| Alarm panel silent alarm test                                | X  | X   |          |    |     |     |     |     |     |          |
| Alarm panel circuit failure test                             | X  | X   |          |    |     |     |     |     |     |          |
| -  |    |     |          |    |     |     |     |     |     |          |

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| FRESH WATER DRAIN COLLECTION TANK  | IA          | LOA         | Nr 1  | Nr 4  | Nr 2  | Nr 3  |
|--|-------------|-------------|-------|-------|-------|-------|
| Pump operation   | X           | X           |       |       |       |       |
| Tank level controls when on vacuum drag  | X           |             |       |       |       |       |
| STEAM FIRE PUMPS   | IA          | LOA         | Nr 7  | Nr 8  | Nr 10 | Nr 11 |
| Speed Limiting Governor freedom of movement  | X           | X           |       | 1110  | 1,110 | 11111 |
| Position of overload nozzle  | X           | X           |       |       |       |       |
| Check valve leakage (no backwards pump rotation)   | X           | X           |       |       |       |       |
| Speed Limiting Governor at set point   | X           | 71          |       |       |       |       |
| Constant pressure regulator operation  | X           |             |       |       |       |       |
| Pump running in parameters   | X           |             |       |       |       |       |
| Inspect lube oil sample, sump level, dipstick markings   | X           | X           |       |       |       |       |
| inspect tube on sample, sump level, dipstick markings  | Λ           | Λ           |       |       |       |       |
| MAIN DRAIN SYSTEM  | IA          | LOA         | 1 MMR | 4 MMR | 2 MMR | 3 MMR |
| Align and operate eductors   | X           | X           |       |       |       |       |
| Cycle remote operated valves locally   | X           | X           |       |       |       |       |
| Cycle remote operated valves remotely at port hydrl station  | X           | X           |       |       |       |       |
| Cycle remote operated valves remotely at stbd hydrl station  | X           | X           |       |       |       |       |
| Bilge suction strainer integrity   | X           | X           |       |       |       |       |
|  |             |             |       |       |       |       |
| VENTILATION  | IA          | LOA         | 1 MMR | 4 MMR | 2 MMR | 3 MMR |
| Start/stop and high/low from local station   | X           | X           |       |       |       |       |
| Start/stop and high/low from remote station  | X           | X           |       |       |       |       |
| Indicator lights   | X           | X           |       |       |       |       |
| AUX MACHINERY COOLING WATER PUMP   | IA          | LOA         | 1 MMR | 4 MMR | 2 MMR | 3 MMR |
| Local start/stop   | X           | X           |       |       |       |       |
| Direction of rotation  | X           | X           |       |       |       |       |
| Check valve leakage (no backwards pump rotation)   | X           | X           |       |       |       |       |
| Reducer operation  | X           | X           |       |       |       |       |
| 1  |             | _1          | П     | I     |       |       |
| Distilling plants  | IA          | LOA         | Nr 3  | Nr 4  | Nr 1  | Nr 2  |
| All pumps operating correctly  | X           | X           |       |       |       |       |
| Dump valve automatic function  | X           | X           |       |       |       |       |
| Operating in parameters (temp/press/salinity)  | X           |             |       |       |       |       |
| Salinity cell/dump valve set points  | X           | X           |       |       |       |       |
| Ameroyal system operation  | X           | X           |       |       |       |       |
|  |             |             |       |       |       |       |
| HP AIR SYSTEMS   | IA          | LOA         | Nr 3  | Nr 4  | Nr 1  | Nr 2  |
| HPAC auto-start load/unload pressure   | X           | X           |       |       |       |       |
| HPAC operation within parameters   | X           | X           |       |       |       |       |
| HPAC low lube oil pressure shut down   | X           | X           |       |       |       |       |
| HPAC low lube oil pressure time delay  | X           | X           |       |       |       |       |
| HPAC high temp shut down   | X           | X           |       |       |       |       |
| Inspect lube oil sample, sump level, dipstick markings   | X           | X           |       |       |       |       |
| HPAD operation within in parameters  | X           | X           | I     | 1     | 1     |       |
| 1  |             |             |       |       |       |       |
| HPAD not on bypass or cut-out, alarms not cut-out Align HP reducing station, HP/LP reducer operation | X<br>X<br>X | X<br>X<br>X |       |       |       |       |

Legend: X - Demonstrate

O - Observe.

# CV-67 Fire Room Representative Hot & Cold Checks/Tests

| DAMAGE CONTROL  | IA | LOA | 1 MMR     | 4 MMR     | 2 M    | MR | 3 M    | MR |
|---|----|-----|-----------|-----------|--------|----|--------|----|
| Halon MRC Q-1R demonstration                                  | X  | X   |           |           |        |    |        |    |
| Halon MRC 18M-3R demonstration                                | X  | X   |           |           |        |    |        |    |
| Halon bottle cali stickers, pressure, piping/nozzle integrity | X  | X   |           |           |        |    |        |    |
| Halon actuation station integrity (local and remotes)         | X  | X   |           |           |        |    |        |    |
| AFFF bilge sprinkling piping/nozzle integrity                 | X  | X   |           |           |        |    |        |    |
| AFFF hosereel/nozzle operation/activation stations            | X  | X   |           |           |        |    |        |    |
| AFFF space cutout valves locked open                          | X  | X   |           |           |        |    |        |    |
| Ellison door closure/Escape trunk lighting/integrity          | X  | X   |           |           |        |    |        |    |
| BOILERS   | IA | LOA | 1 1B<br>A | 4 4E<br>A | 2<br>A | 2B | 3<br>A | 3B |

| BOILERS  | IΑ   | LOA | 1<br>A | 1B | 4<br>A | 4B | 2<br>A | 2B | 3<br>A | 3B |
|--|------|-----|--------|----|--------|----|--------|----|--------|----|
| Quick closing valves remote operation/leakage                | idle | X   |        |    | А      |    |        |    |        |    |
| Burner root valve/SSD/ball check leakage                     | idle | X   |        |    |        |    |        |    |        |    |
| Three-way valve operation and marking                        | X    | X   |        |    |        |    |        |    |        |    |
| Fuel oil control valve proper minimum fuel oil pressure      | idle | X   |        |    |        |    |        |    |        |    |
| Air register freedom of movement                             | idle | X   |        |    |        |    |        |    |        |    |
| Steam smothering system alignment                            | X    | X   |        |    |        |    |        |    |        |    |
| Air casing lighting  | X    | X   |        |    |        |    |        |    |        |    |
| Periscope lighting and alignment                             | X    | X   |        |    |        |    |        |    |        |    |
| Sufficient number of burner barrels and sprayer plates,      | X    | X   |        |    |        |    |        |    |        |    |
| correct go/no-go gages, hydro dates, instruction available   |      |     |        |    |        |    |        |    |        | ŀ  |
| Sample cooler preservation, operability, installation        | X    | X   |        |    |        |    |        |    |        |    |
| Soot blower element rotation/freedom of operation            | X    | X   |        |    |        |    |        |    |        |    |
| Main/Aux steam stop cycle locally/remotely                   | idle | X   |        |    |        |    |        |    |        |    |
| 6 inch cat valve cycle locally/remotely                      | idle | X   |        |    |        |    |        |    |        |    |
| 8 inch cat valve cycle locally/remotely                      | idle | X   |        |    |        |    |        |    |        |    |
| Safety valve yoke clearance, lifting fork movement,          | X    | X   |        |    |        |    |        |    |        |    |
| sequencing (LOA), locks & seals, escape piping temps/drains  |      |     |        |    |        |    |        |    |        |    |
| Pri/sec RWLI tracking/ high & low water alarms               | X    | X   |        |    |        |    |        |    |        |    |
| Boiler gage glass isolation valves and emergency lighting    | X    | X   |        |    |        |    |        |    |        |    |
| Sliding foot freedom of movement, accept grease, markings    | X    | X   |        |    |        |    |        |    |        |    |
| Test BID ac/dc power supply and operation, proper lamps,     | X    | X   |        |    |        |    |        |    |        |    |
| condition of lens, power cord integrity                      |      |     |        |    |        |    |        |    |        |    |
| Bottom blow valve fasteners, orfice caps installed, leakage, | X    | X   |        |    |        |    |        |    |        |    |
| valve operating device available and fits valve              |      |     |        |    |        |    |        |    |        |    |
| Sample boiler water  | X    |     |        |    |        |    |        |    |        |    |
| Cycle boiler stops at local and remote stations              | idle | X   |        |    |        |    |        |    |        |    |
| Cycle fuel oil cut-outs at local and remote stations         | idle | X   |        |    |        |    |        |    |        |    |

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| ELECTRIC FUEL OIL SERVICE PUMPS   | IA | LOA | 1E       |      | 4E       | EB 2E |        | Е  | 3      | E        |
|---|----|-----|----------|------|----------|-------|--------|----|--------|----------|
| Electric FOSP local/remote shutdown switch  | X  | X   |          |      |          |       |        |    |        |          |
| Electric FOSP discharge unloader operation  | X  | X   |          |      |          |       |        |    |        |          |
| STEAM FUEL OIL SERVICE PUMPS (FWD)  | IA | LOA | 1A       | 1B   |          | 1C    | 4A     | 4  | В      | 4C       |
| Steam FOSP steam trip remote/local operation  | X  | X   | 171      | 1.0  |          | 10    | 72 1   | Τ. |        | 70       |
| Steam FOSP constant pressure regulator operation  | X  | Λ   |          |      |          |       |        | -  |        |          |
| Inspect lube oil sample, sump level, dipstick markings  | X  |     |          |      |          |       |        | -  |        |          |
| Speed limiting governor freedom of movement   | X  | X   |          |      |          |       |        |    |        |          |
| Speed limiting governor needom of movement  Speed limiting governor operation                     | X  | Λ   |          |      |          |       |        |    |        |          |
| Sample fuel oil Service tank on suction   | X  | X   |          |      |          |       |        |    |        |          |
| Sample fuel on Service tank on suction  | Λ  | Λ   |          |      |          |       |        |    |        |          |
| STEAM FUEL OIL SERVICE PUMPS (AFT)  | IA | LOA | 2A       | 2B   | 2        | 2C    | 3A     | 3  | В      | 3C       |
| Steam FOSP steam trip remote/local operation  | X  | X   |          |      |          |       |        |    |        |          |
| Steam FOSP constant pressure regulator operation  | X  |     |          |      |          |       |        |    |        |          |
| Inspect lube oil sample, sump level, dipstick markings  | X  |     |          |      |          |       |        |    |        |          |
| Speed limiting governor freedom of movement   | X  | X   |          |      |          |       |        |    |        |          |
| Speed limiting governor operation   | X  |     |          |      |          |       |        |    |        |          |
| Sample fuel oil Service tank on suction   | X  | X   |          |      |          |       |        |    |        |          |
|   | •  | •   | u.       |      |          |       |        |    |        |          |
| FIRE SAFE FO STRAINERS  |    |     | 1<br>A   |      | 4<br>A   | 4B    | 2<br>A | 2B | 3<br>A | 3B       |
| Check FSFOS ball valve leakage  | X  | X   |          |      |          |       |        |    |        |          |
| Shift FSFOS   |    | X   |          |      |          |       |        |    |        |          |
|   |    |     |          |      |          |       |        |    |        |          |
| DEAERATING FEED TANK  | IA | LOA | Nr 1     | l    | Nr       | 4     | Nı     | 2  | N      | r 3      |
| Operability of the MUF and dump valves (manual)   | X  | X   |          |      |          |       |        |    |        |          |
| Upper/lower shell temperatures in parameter   | X  | X   |          |      |          |       |        |    |        |          |
| Level control stability/sequencing of the MUF/dump valve  | X  |     |          |      |          |       |        |    |        |          |
| Aux exhaust system valve sequencing (dump valves &  | X  |     |          |      |          |       |        |    |        |          |
| augmenter set points, DFT shell pressure)   |    |     |          |      |          |       |        |    |        |          |
| Gage glass protection devices and isolation valves  | X  | X   |          |      |          |       |        |    |        |          |
| Sample cooler preservation, operability, installation   | X  | X   |          |      |          |       |        |    |        |          |
| Test dissolved oxygen level (<15 ppb)   | X  | X   |          |      |          |       |        |    |        |          |
| Test hydrazine level  | X  | X   |          |      |          |       |        |    |        |          |
|   |    |     |          |      |          |       |        |    |        |          |
| AUTOMATIC BOILER CONTROLS   | IA | LOA | 1        | 1B 4 | 1        | 4B    | 2      | 2B | 3      | 3B       |
| Boiler at setpoint  | X  | 1   | A        |      | A        |       | A      |    | A      |          |
| Operation/tracking of all final control elements  | Λ  | X   |          |      |          |       |        |    |        |          |
| Operation of master/element air locks, master reset   |    | X   | $\vdash$ |      | $\dashv$ |       |        |    | -      | $\vdash$ |
| ACC air pressure alarms   | X  | X   |          |      |          |       |        |    |        |          |
|   | Λ  | X   |          |      |          |       |        |    |        |          |
| All control element fail positions correct  Minimum signal selector (up romp, EO should not move) |    | X   | $\vdash$ |      | $\dashv$ |       |        |    | -      |          |
| Minimum signal selector (up ramp, FO should not move)   | v  | Λ   | $\vdash$ |      | $\dashv$ |       |        |    | -      | $\vdash$ |
| ACC & FW control stability in automatic  MFP recirc valve operation                               | X  |     |          |      |          |       |        |    |        | <u> </u> |
|   | X  |     |          | 1    | , j      |       |        |    |        |          |

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| FORCED DRAFT BLOWERS (1 MMR)  | IA | LOA | 1A1 | 1A2 | 1A3  | 1B1  | 1B2        | 1B3   |
|---|----|-----|-----|-----|------|------|------------|-------|
| Shutter freedom of movement, ability to be locked closed                          | X  | X   |     |     |      |      |            |       |
| Inspect lube oil sample, sump level, dipstick markings                            | X  | X   |     |     |      |      |            |       |
| Manual lube oil pump operation  | X  | X   |     |     |      |      |            |       |
| Centrifilter operation  | X  | X   |     |     |      |      |            |       |
| Lube oil system low pressure alarm/trip   | X  | X   |     |     |      |      |            |       |
| Shaft rotation by hand  |    | X   |     |     |      |      |            |       |
| ELOP sequencing, attached LO pump able to take load                               | X  |     |     |     |      |      |            |       |
| FDB minimum speed set point   | X  |     |     |     |      |      |            |       |
| FDB Speed Limiting Governor operation   | X  |     |     |     |      |      |            |       |
| FORCED DRAFT BLOWERS (4 MMR)  | IA | LOA | 4A1 | 4A2 | 4A3  | 4B1  | 4B2        | 4B3   |
| Shutter freedom of movement, ability to be locked closed                          | X  | X   |     |     | 11-0 |      | <u> </u>   |       |
| Inspect lube oil sample, sump level, dipstick markings                            | X  | X   |     |     |      |      |            |       |
| Manual lube oil pump operation  | X  | X   |     |     |      |      |            |       |
| Centrifilter operation  | X  | X   |     |     |      |      |            |       |
| Lube oil system low pressure alarm/trip   | X  | X   |     |     |      |      |            |       |
| Shaft rotation by hand  | Λ  | X   |     |     |      |      |            |       |
| ELOP sequencing, attached LO pump able to take load                               | v  | Λ   |     |     |      |      |            |       |
| 1 5 1   | X  |     |     |     |      |      |            |       |
| FDB minimum speed set point   | _  |     |     |     |      |      |            |       |
| FDB Speed Limiting Governor operation   | X  |     |     |     |      |      |            |       |
| FORCED DRAFT BLOWERS (2 MMR)  | IA | LOA | 2A1 | 2A2 | 2A3  | 2B1  | 2B2        | 2B3   |
| Shutter freedom of movement, ability to be locked closed                          | X  | X   |     |     |      |      |            |       |
| Inspect lube oil sample, sump level, dipstick markings                            | X  | X   |     |     |      |      |            |       |
| Manual lube oil pump operation  | X  | X   |     |     |      |      |            |       |
| Centrifilter operation  | X  | X   |     |     |      |      |            |       |
| Lube oil system low pressure alarm/trip   | X  | X   |     |     |      |      |            |       |
| Shaft rotation by hand  |    | X   |     |     |      |      |            |       |
| ELOP sequencing, attached LO pump able to take load                               | X  |     |     |     |      |      |            |       |
| FDB minimum speed set point   | X  |     |     |     |      |      |            |       |
| FDB Speed Limiting Governor operation   | X  |     |     |     |      |      |            |       |
| FORCED DRAFT BLOWERS (3 MMR)  | IA | LOA | 3A1 | 3A2 | 3A3  | 3B1  | 3B2        | 3B3   |
| Shutter freedom of movement, ability to be locked closed                          | X  | X   |     |     |      |      |            |       |
| Inspect lube oil sample, sump level, dipstick markings                            | X  | X   |     |     |      |      |            |       |
| Manual lube oil pump operation  | X  | X   |     |     |      |      |            |       |
| Centrifilter operation  | X  | X   |     |     |      |      |            |       |
| Lube oil system low pressure alarm/trip   | X  | X   |     |     |      |      |            |       |
| Shaft rotation by hand  | 1  | X   |     |     |      |      |            |       |
| ELOP sequencing, attached LO pump able to take load                               | X  | 1   |     |     |      |      |            |       |
| FDB minimum speed set point   | X  | †   |     |     |      |      |            |       |
| FDB Speed Limiting Governor operation   | X  |     |     |     |      |      |            |       |
|   | IA | LOA | Nr  | 1   | Nr 4 | Nr 2 | ,          | Nr 3  |
| ELECTRIC LIGHT OFF BLOWERS  Electric light-off blower operation/shutter operation | X  | X   | INI | 1 . | NI 4 | INI  | <u>~</u> . | INI J |
| Execute right-off blower operation/shutter operation                              | Λ  | Λ   |     |     |      |      |            |       |

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| MAIN FEED PUMPS (FWD)                                  | IA | LOA | 1A     | 1  | В   | 1C  | 4A     | 4   | В    | 4C  |
|--|----|-----|--------|----|-----|-----|--------|-----|------|-----|
| MFP low suction trip (normally 3 psi apart)            | X  | X   |        |    |     |     |        |     |      |     |
| Low suction trip, pump rollover                        | X  |     |        |    |     |     |        |     |      |     |
| Low lube oil trip & alarm, ELOP & hand lube oil pump   | X  | X   |        |    |     |     |        |     |      |     |
| Inspect lube oil sample, sump level, dipstick markings | X  |     |        |    |     |     |        |     |      |     |
| ELOP autostart, attached LO pump to assume load        | X  |     |        |    |     |     |        |     |      |     |
| Speed limiting governor freedom of movement            | X  | X   |        |    |     |     |        |     |      |     |
| Speed limiting governor operation                      | X  |     |        |    |     |     |        |     |      |     |
| Manual trip  | X  | X   |        |    |     |     |        |     |      |     |
| Overspeed trip operation                               | X  |     |        |    |     |     |        |     |      |     |
| MAIN FEED PUMPS (AFT)                                  | IA | LOA | 2A     | 2  | В   | 2C  | 3A     | 3   | В    | 3C  |
| MFP low suction trip (normally 3 psi apart)            | X  | X   | T      | 1  |     |     |        |     |      |     |
| Low suction trip, pump rollover                        | X  |     |        |    |     |     |        |     |      |     |
| Low lube oil trip & alarm, ELOP & hand lube oil pump   | X  | X   |        |    |     |     |        |     |      |     |
| Inspect lube oil sample, sump level, dipstick markings | X  |     | 1      |    |     |     |        |     |      |     |
| ELOP autostart, attached LO pump to assume load        | X  |     |        |    |     |     |        |     |      |     |
| Speed limiting governor freedom of movement            | X  | X   |        |    |     |     |        |     |      |     |
| Speed limiting governor operation                      | X  |     | 1      |    |     |     |        |     |      |     |
| Manual trip  | X  | X   |        |    |     |     |        |     |      |     |
| Overspeed trip operation                               | X  |     |        |    |     |     |        |     |      |     |
| MAIN FEED BOOSTER PUMPS (FWD)                          | IA | LOA | 1      | 1B | 1C  | 1E  | 4      | 4B  | 4C   | 4E  |
| · · ·  |    |     | A      |    | 1   |     | A      |     |      | 1   |
| Auto-start   |    | X   | -      |    |     |     |        |     |      |     |
| Low discharge pressure alarm                           | 37 | X   |        |    |     |     |        |     |      |     |
| Operating within normal parameters                     | X  |     |        |    |     |     |        |     |      |     |
| MAIN FEED BOOSTER PUMPS (AFT)                          | IA | LOA | 2<br>A | 2B | 2C  | 2E  | 3<br>A | 3B  | 3C   | 3E  |
| Auto-start   |    | X   |        |    |     |     |        |     |      |     |
| Low discharge pressure alarm                           |    | X   |        |    |     |     |        |     |      |     |
| Operating within normal parameters                     | X  |     |        |    |     |     |        |     |      |     |
| SALINITY ALARM PANELS                                  | IA | LOA | 1 M    | MR | 4 N | 1MR | 2 N    | IMR | 3 M  | MR  |
| Salinity panel meter calibration test                  | X  | X   | 1 1/1  |    |     |     | ,      |     | J 10 |     |
| Salinity panel alarm set points                        | X  | X   |        |    |     |     |        |     |      |     |
| Alarm panel silent alarm test                          | X  | X   |        |    |     |     |        |     |      |     |
| Alarm panel circuit failure test                       | X  | X   |        |    |     |     |        |     |      |     |
| AIR PILOT/DIAPHRAGM OPERATED VALVES                    | IA | LOA | 1 M    | MR | 4 N | 1MR | 2 M    | IMR | 3 M  | IMR |
| Manually stroke, check for binding                     |    | X   |        |    |     |     |        |     |      |     |

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| MAIN DRAIN SYSTEMS  | IA         | LOA | 1     |        | 4   | 4      | 2   | (      | 3   |
|---|------------|-----|-------|--------|-----|--------|-----|--------|-----|
|   |            |     | MMR   | M.     | MR  | M      | MR  | M      | MR  |
| Align and operate eductors                                  | X          | X   |       |        |     |        |     |        |     |
| Cycle remote operated valves locally                        | X          | X   |       |        |     |        |     |        |     |
| Cycle remote operated valves remotely at port hydrl station | X          | X   |       |        |     |        |     |        |     |
| Cycle remote operated valves remotely at stbd hydrl station | X          | X   |       |        |     |        |     |        |     |
| Bilge suction strainer integrity                            | X          | X   |       |        |     |        |     |        |     |
|   |            |     |       |        |     |        |     |        |     |
| FUEL OIL STRIPPING PUMP                                     | IA         | LOA | Nr 1  | N      | r 4 | NI     | R 2 | N      | r 3 |
| Align and perform token stripping of FO service tank        | X          | X   |       |        |     |        |     |        |     |
| Align and perform token pumping of bilge                    | X          | X   |       |        |     |        |     |        |     |
|   | <b>-</b> . |     | 1100  | 4.3    | n m | 2.1    |     | 2.1.   | n m |
| VENTILATION   | IA         | LOA | 1 MMR | 4 N    | IMR | 2 M    | IMR | 3 M    | IMR |
| Start/stop and high/low from local station                  | X          | X   |       |        |     |        |     |        |     |
| Start/stop and high/low from remote station                 | X          | X   |       |        |     |        |     |        |     |
| Indicator lights  | X          | X   |       |        |     |        |     |        |     |
| ABTs/MBTs   | IA         | LOA | 1 MMR | 4 N    | 1MR | 2 M    | IMR | 3 M    | IMR |
| ABT operation in both automatic and manual modes            | X          | X   |       |        |     |        |     |        |     |
| Shift MBT, check manual interlock (both sources available)  | X          | X   |       |        |     |        |     |        |     |
| ACC AIR SYSTEMS   | IA         | LOA | 1 1B  | 4<br>A | 4B  | 2<br>A | 2B  | 3<br>A | 3B  |
| Compressor lead/lag settings per EOP                        | X          | X   |       |        |     |        |     |        |     |
| Compressor operation within parameters                      | X          | X   |       |        |     |        |     |        |     |
| Compressor low lube oil pressure shut down                  | X          | X   |       |        |     |        |     |        |     |
| Compressor low lube oil pressure time delay                 | X          | X   |       |        |     |        |     |        |     |
| Compressor high cylinder temp shut down                     | X          | X   |       |        |     |        |     |        |     |
| Shift saltwater duplex strainer                             | X          | X   |       |        |     |        |     |        |     |
| Dehydrator operation within parameters                      | X          | X   |       |        |     |        |     |        |     |
| Dehydrator not on bypass or cutout, alarms not cutout       | X          | X   |       |        |     |        |     |        |     |
| Low control air pressure alarm                              | X          | X   |       |        |     |        |     |        |     |
| Inspect lube oil sample, sump level, dipstick markings      | X          | X   | 11    |        |     |        |     |        |     |

Legend: X - Demonstrate

O - Observe.

**CV-67** Auxiliary Machinery Room (7-123-0-E) and Main Shafting **Representative Hot & Cold Checks/Tests** 

| Halon MRC Q-1R demonstration   | DAMAGE CONTROL  | IA | LOA | AMR   |    |
|--|---|----|-----|-------|----|
| Halon bottle cali stickers, pressure, piping/nozzle integrity  | Halon MRC Q-1R demonstration                                  | X  | X   |       |    |
| Halon actuation station integrity (local and remotes) X X X  AFFF bilge sprinkling piping/nozzle integrity X X X  AFFF hosereel/nozzle operation/activation stations X X X  AFFF space cutout valves locked open X X X  Ellison door closure/Escape trunk lighting/integrity X X X  SHIP'S SERVICE TURBINE GENERATOR IA LOA 2A 2B  Manual trip X X X  Low lube oil trip X X X  Back pressure trip X X X  Low lube oil trip X X X  Low lube oil darm Operation of elect lube oil pump and manual lube oil pump X X X  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel X X X  Rotor position, bearing temps, oil flow through SFIs X X  Rotor position, bearing temps, oil flow through SFIs X X  Operation of aux circ pump and aux cond pump X X X  Over-speed trip (manual trip must be demonstrated first) X  Reverse power relay trip operation X  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms X X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS IA LOA Nr 2S  Ground check X X X  Ruber boots, face shield, shorting probe X X X  ABTs/MBTS IA LOA AMR  ABT operation in both automatic and manual modes X X X  Shift MBT, check manual interlock (both sources available) X X  SALINITY ALARM PANEL IA LOA AMR  Salinity panel meter calibration test X X X  Alarm panel silent alarm test X X X  Alarm panel silent alarm test X X X  Alarm panel silent alarm test X X X  | Halon MRC 18M-3R demonstration                                | X  | X   |       |    |
| AFFF bilge sprinkling piping/nozzle integrity  AFFF hosereel/nozzle operation/activation stations  AFFF space cutout valves locked open  Ellison door closure/Escape trunk lighting/integrity  X  X  SHIP'S SERVICE TURBINE GENERATOR  IA LOA 2A 2B  Manual trip  X  Low lube oil trip  X  X  Low lube oil trip  Back pressure trip  Low lube oil alarm  Operation of elect lube oil pump and manual lube oil pump  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel  Inspect lube oil sample, sump level, dipstick markings  Rotor position, bearing temps, oil flow through SFIs  Oyer-speed trip (manual trip must be demonstrated first)  Reverse power relay trip operation  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  X  ABTs/MBTs  IA LOA AMR  ABT operation in both automatic and manual modes  X  X  SALINITY ALARM PANEL  IA LOA AMR  Salinity panel alarm set points  X  X  X  ABT Salinity panel alarm set points  X  X  X  AI  ABT spend AMR  ABT operation test  Salinity panel meter calibration test  Salinity panel alarm set points  X  X  X  ABT spend AMR  ABT apnel silent alarm set points  X  X  ABT apnel silent alarm set spoints  X  X  ABT apnel silent alarm set points  X  X  ABT apnel silent alarm set points  X  X  ABT apnel silent alarm set points   | Halon bottle cali stickers, pressure, piping/nozzle integrity | X  | X   |       |    |
| AFFF hosereel/nozzle operation/activation stations  AFFF space cutout valves locked open  Ellison door closure/Escape trunk lighting/integrity  X  X  SHIP'S SERVICE TURBINE GENERATOR  IA LOA 2A 2B  Manual trip  X  X  Low lube oil trip  Back pressure trip  Low lube oil alarm  Operation of elect lube oil pump and manual lube oil pump  X  X  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel  Inspect lube oil sample, sump level, dipstick markings  X  X  Operation of aux circ pump and aux cond pump  X  X  Operation of aux circ pump and aux cond pump  X  X  Operation of aux circ pump and aux cond pump  X  X  Operation of aux circ pump and aux cond pump  X  X  Operation of aux circ pump and aux cond pump  X  X  Operation of aux circ pump and aux cond pump  X  X  Over-speed trip (manual trip must be demonstrated first)  Reverse power relay trip operation  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS  IA LOA Nr 2S  Ground check  X  Rubber boots, face shield, shorting probe  Indicator lights  ABT operation in both automatic and manual modes  X  X  Shift MBT, check manual interlock (both sources available)  X  X  SALINITY ALARM PANEL  IA LOA AMR  Salinity panel alarm set points  X  X  Alarm panel silent alarm test  X  X  Alarm panel silent alarm test  X  X  Alarm panel silent alarm test   | Halon actuation station integrity (local and remotes)         | X  | X   |       |    |
| AFFF space cutout valves locked open Ellison door closure/Escape trunk lighting/integrity  X X  SHIP'S SERVICE TURBINE GENERATOR IA LOA 2A 2B  Manual trip X X X  Low lube oil trip Back pressure trip X X X  Low lube oil alarm Operation of elect lube oil pump and manual lube oil pump X X X  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel Inspect lube oil sample, sump level, dipstick markings Rotor position, bearing temps, oil flow through SFIs X X  Operation of aux circ pump and aux cond pump X X  Over-speed trip (manual trip must be demonstrated first) Reverse power relay trip operation Governor high and low speed stops (generator not overspeed before reaching the high speed stop) Airbox telltale drains, temp alarms  X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS Indicator lights  IA LOA AMR  ABT operation in both automatic and manual modes X X  Shift MBT, check manual interlock (both sources available)  X X  SALINITY ALARM PANEL IA LOA AMR  Salinity panel alarm set points X X  Alarm panel silent alarm test X X  Alarm panel silent alarm test   | AFFF bilge sprinkling piping/nozzle integrity                 | X  | X   |       |    |
| Ellison door closure/Escape trunk lighting/integrity X X X  SHIP'S SERVICE TURBINE GENERATOR IA LOA 2A 2B  Manual trip X X X X  Low lube oil trip X X X X  Back pressure trip X X X X  Operation of elect lube oil pump and manual lube oil pump X X X X  Unificential pressure, interlocks, SICLOS Alarm panel III pressure, interlocks, SICLOS Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample temps, oil flow through SFIs X X X Inspect lube oil sample temps, oil flow through SFIs X X X Inspect lube oil sample temps, oil flow through SFIs X X X Inspect lube oil sample temps, oil flow through SFIs X X X Inspect lube oil sample temps, oil flow through SFIs X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil sample, sump level, dipstick markings X X X Inspect lube oil strainer spray shield integrity, plug cock leakage, X X X Inspect lube oil strainer spray shield integrity, plug cock leakage, X X X Inspect lube oil strainer spray shield integrity, plug cock leakage, X X X Inspect lube oil strainer spray shield integrity, plug cock leakage, X X X Inspect lube oil strainer spray shield integrity, plug cock leakage, X X X Inspect lube oil strainer spray shield integrity, plug cock leakage, X X X Inspect lube oil strainer spray shield integrity, plug cock leakage, X X X Inspect lube oil strainer spray shield lube oil pump plug pump lube oil strainer spray shield lu | AFFF hosereel/nozzle operation/activation stations            | X  | X   |       |    |
| SHIP'S SERVICE TURBINE GENERATOR  Manual trip  Low lube oil trip  Back pressure trip  Low lube oil alarm  Operation of elect lube oil pump and manual lube oil pump  Ax X X  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel  Inspect lube oil sample, sump level, dipstick markings  Rotor position, bearing temps, oil flow through SFIs  Operation of aux circ pump and aux cond pump  X X X  Operation of aux circ pump and aux cond pump  X X X  Over-speed trip (manual trip must be demonstrated first)  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  X X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS  Ground check  X X X  Raber boots, face shield, shorting probe  Indicator lights  ABT operation in both automatic and manual modes  X X X  Shift MBT, check manual interlock (both sources available)  X X X  Salinity panel meter calibration test  Alarm panel silent alarm test  X X X  SIBMETS  Alarm panel silent alarm test  X X X  SALINITY ALARM PANEL  Alarm panel silent alarm test  X X X  SALINITY panel meter calibration test  Alarm panel silent alarm test  X X X  | AFFF space cutout valves locked open                          | X  | X   |       |    |
| Manual trip  Low lube oil trip  Back pressure trip  Low lube oil alarm  Operation of elect lube oil pump and manual lube oil pump  X X X  Description of elect lube oil pump and manual lube oil pump  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel  Alarm panel  Inspect lube oil sample, sump level, dipstick markings  X X X  Rotor position, bearing temps, oil flow through SFIs  Operation of aux circ pump and aux cond pump  X X  Rover-speed trip (manual trip must be demonstrated first)  Reverse power relay trip operation  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS  Ground check  Rubber boots, face shield, shorting probe  ABTs/MBTs  IA LOA AMR  ABT operation in both automatic and manual modes  X X  Shift MBT, check manual interlock (both sources available)  X X  Salinity panel meter calibration test  Salinity panel alarm set points  X X  ABT Salinity panel alarm set points  X X  ABT Salinity panel silent alarm test  X X  ABT Salinity panel silent alarm test  X X  ABT SALINITY ALARM PANEL  ABT Salinity panel silent alarm test  X X  ABT SALINITY ALARM PANEL  ABT Salinity panel silent alarm test   | Ellison door closure/Escape trunk lighting/integrity          | X  | X   |       |    |
| Manual trip  Low lube oil trip  Back pressure trip  Low lube oil alarm  Operation of elect lube oil pump and manual lube oil pump  X X X  Description of elect lube oil pump and manual lube oil pump  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel  Alarm panel  Inspect lube oil sample, sump level, dipstick markings  X X X  Rotor position, bearing temps, oil flow through SFIs  Operation of aux circ pump and aux cond pump  X X  Rover-speed trip (manual trip must be demonstrated first)  Reverse power relay trip operation  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS  Ground check  Rubber boots, face shield, shorting probe  ABTs/MBTs  IA LOA AMR  ABT operation in both automatic and manual modes  X X  Shift MBT, check manual interlock (both sources available)  X X  Salinity panel meter calibration test  Salinity panel alarm set points  X X  ABT Salinity panel alarm set points  X X  ABT Salinity panel silent alarm test  X X  ABT Salinity panel silent alarm test  X X  ABT SALINITY ALARM PANEL  ABT Salinity panel silent alarm test  X X  ABT SALINITY ALARM PANEL  ABT Salinity panel silent alarm test   |   |    |     |       |    |
| Low lube oil trip  Back pressure trip  Low lube oil alarm  Noperation of elect lube oil pump and manual lube oil pump  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel  Inspect lube oil sample, sump level, dipstick markings  Rotor position, bearing temps, oil flow through SFIs  Operation of aux circ pump and aux cond pump  Nover-speed trip (manual trip must be demonstrated first)  Reverse power relay trip operation  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  Nairbox telltale dr | SHIP'S SERVICE TURBINE GENERATOR                              | IA | LOA | 2A    | 2B |
| Back pressure trip Low lube oil alarm Operation of elect lube oil pump and manual lube oil pump X X Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS Alarm panel Inspect lube oil sample, sump level, dipstick markings Rotor position, bearing temps, oil flow through SFIs Operation of aux circ pump and aux cond pump X X Over-speed trip (manual trip must be demonstrated first) Reverse power relay trip operation Governor high and low speed stops (generator not overspeed before reaching the high speed stop) Airbox telltale drains, temp alarms X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS Ground check X X X  Rubber boots, face shield, shorting probe Indicator lights  ABT operation in both automatic and manual modes Shift MBT, check manual interlock (both sources available)  SALINITY ALARM PANEL IA LOA AMR Salinity panel meter calibration test Salinity panel alarm set points X X X  | Manual trip   | X  | X   |       |    |
| Low lube oil alarm Operation of elect lube oil pump and manual lube oil pump X X X Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS Alarm panel X X X Inspect lube oil sample, sump level, dipstick markings X X X Soperation of aux circ pump and aux cond pump X X X Operation of aux circ pump and aux cond pump X X X Over-speed trip (manual trip must be demonstrated first) X Reverse power relay trip operation X Governor high and low speed stops (generator not overspeed before reaching the high speed stop) Airbox telltale drains, temp alarms X X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS Ground check X X X Inspect lube oil sample, sump level, dipstick markings X X X  MAIN SWITCHBOARDS & Total check X X X  Rubber boots, face shield, shorting probe X X X  Indicator lights X X X  Shift MBT, check manual interlock (both sources available) X X X  SALINITY ALARM PANEL IA LOA AMR Salinity panel meter calibration test X X X  Salinity panel alarm set points X X X  Salinity panel silent alarm test X X X   | Low lube oil trip   | X  | X   |       |    |
| Operation of elect lube oil pump and manual lube oil pump  Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel  Inspect lube oil sample, sump level, dipstick markings Rotor position, bearing temps, oil flow through SFIs Operation of aux circ pump and aux cond pump  Over-speed trip (manual trip must be demonstrated first) Reverse power relay trip operation Governor high and low speed stops (generator not overspeed before reaching the high speed stop) Airbox telltale drains, temp alarms  MAIN SWITCHBOARDS & DISTRIBUTION PANELS IA RODA Nr 2S Ground check Rubber boots, face shield, shorting probe Indicator lights  ABTs/MBTs  IA LOA AMR  ABT operation in both automatic and manual modes X Shift MBT, check manual interlock (both sources available)  X X X  SALINITY ALARM PANEL IA LOA AMR  Salinity panel meter calibration test Salinity panel silent alarm test X X X X X X X X X X X X X X X X X X X   | Back pressure trip  |    | X   |       |    |
| Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS  Alarm panel  Inspect lube oil sample, sump level, dipstick markings Rotor position, bearing temps, oil flow through SFIs Operation of aux circ pump and aux cond pump  Over-speed trip (manual trip must be demonstrated first) Reverse power relay trip operation Governor high and low speed stops (generator not overspeed before reaching the high speed stop) Airbox telltale drains, temp alarms  MAIN SWITCHBOARDS & DISTRIBUTION PANELS Ground check Rubber boots, face shield, shorting probe Indicator lights  IA LOA Nr 2S  ABTs/MBTs  IA LOA AMR ABT operation in both automatic and manual modes Shift MBT, check manual interlock (both sources available)  SALINITY ALARM PANEL  IA LOA AMR Salinity panel meter calibration test Salinity panel alarm set points Alarm panel silent alarm test   | Low lube oil alarm  | X  | X   |       |    |
| differential pressure, interlocks, SICLOS  Alarm panel  X X X  Inspect lube oil sample, sump level, dipstick markings  Rotor position, bearing temps, oil flow through SFIs  Operation of aux circ pump and aux cond pump  X X X  Over-speed trip (manual trip must be demonstrated first)  Reverse power relay trip operation  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS  Ground check  Rubber boots, face shield, shorting probe  Indicator lights  ABT operation in both automatic and manual modes  X X X  Shift MBT, check manual interlock (both sources available)  X X X  SALINITY ALARM PANEL  IA LOA AMR  Salinity panel meter calibration test  Salinity panel alarm set points  Alarm panel silent alarm test  X X X  A X  A X  A X  A X  A X  A X  | Operation of elect lube oil pump and manual lube oil pump     | X  | X   |       |    |
| Alarm panel X X X Inspect lube oil sample, sump level, dipstick markings X X X Rotor position, bearing temps, oil flow through SFIs X X X Operation of aux circ pump and aux cond pump X X X Over-speed trip (manual trip must be demonstrated first) X Reverse power relay trip operation X Governor high and low speed stops (generator not overspeed before reaching the high speed stop) Airbox telltale drains, temp alarms X X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS Ground check X X X Rubber boots, face shield, shorting probe X X X Indicator lights IA LOA AMR ABT operation in both automatic and manual modes X X X Shift MBT, check manual interlock (both sources available) X X  SALINITY ALARM PANEL IA LOA AMR Salinity panel meter calibration test X X X Salinity panel alarm set points X X X Alarm panel silent alarm test X X X  | Lube oil strainer spray shield integrity, plug cock leakage,  | X  | X   |       |    |
| Inspect lube oil sample, sump level, dipstick markings   | differential pressure, interlocks, SICLOS                     |    |     |       |    |
| Rotor position, bearing temps, oil flow through SFIs   | Alarm panel   | X  | X   |       |    |
| Operation of aux circ pump and aux cond pump  Over-speed trip (manual trip must be demonstrated first)  Reverse power relay trip operation  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  MAIN SWITCHBOARDS & DISTRIBUTION PANELS  Ground check  Rubber boots, face shield, shorting probe  Indicator lights  ABTs/MBTs  IA LOA AMR  ABT operation in both automatic and manual modes  X X  Shift MBT, check manual interlock (both sources available)  SALINITY ALARM PANEL  IA LOA AMR  Salinity panel meter calibration test  X X  Salinity panel alarm set points  Alarm panel silent alarm test   | Inspect lube oil sample, sump level, dipstick markings        | X  | X   |       |    |
| Over-speed trip (manual trip must be demonstrated first) X Reverse power relay trip operation X Sovernor high and low speed stops (generator not overspeed before reaching the high speed stop) X X X X Sovernor high and low speed stops (generator not overspeed before reaching the high speed stop) X X X X X X X X X X X X X X X X X X X  | Rotor position, bearing temps, oil flow through SFIs          | X  | X   |       |    |
| Reverse power relay trip operation  Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS  Ground check  Rubber boots, face shield, shorting probe  Indicator lights  X  X  ABTs/MBTs  IA  LOA  AMR  ABT operation in both automatic and manual modes  Shift MBT, check manual interlock (both sources available)  X  SALINITY ALARM PANEL  IA  LOA  AMR  Salinity panel meter calibration test  Salinity panel alarm set points  Alarm panel silent alarm test  X    X   | Operation of aux circ pump and aux cond pump                  | X  | X   |       |    |
| Governor high and low speed stops (generator not overspeed before reaching the high speed stop)  Airbox telltale drains, temp alarms  X X X  MAIN SWITCHBOARDS & DISTRIBUTION PANELS  Ground check  Rubber boots, face shield, shorting probe  Indicator lights  X X X  ABT operation in both automatic and manual modes  Shift MBT, check manual interlock (both sources available)  X X X  Salinity panel meter calibration test  Salinity panel alarm set points  Alarm panel silent alarm test  X X X  AX  AX  AX  AX  AX  AX  AX  AX  | Over-speed trip (manual trip must be demonstrated first)      | X  |     |       |    |
| before reaching the high speed stop)  Airbox telltale drains, temp alarms  X X X   MAIN SWITCHBOARDS & DISTRIBUTION PANELS Ground check X X X  Rubber boots, face shield, shorting probe X Indicator lights  X X X  ABTs/MBTs IA LOA AMR  ABT operation in both automatic and manual modes X Shift MBT, check manual interlock (both sources available)  X X X  Salinity panel meter calibration test X X X  Alarm panel silent alarm test X X X X X  A  AX  AX  AX  AX  AX  AMR  AMR  | Reverse power relay trip operation                            | X  |     |       |    |
| Airbox telltale drains, temp alarms  | Governor high and low speed stops (generator not overspeed    | X  |     |       |    |
| MAIN SWITCHBOARDS & DISTRIBUTION PANELS       IA       LOA       Nr 2S         Ground check       X       X       X         Rubber boots, face shield, shorting probe       X       X       X         Indicator lights       X       X       X         ABTs/MBTs       IA       LOA       AMR         ABT operation in both automatic and manual modes       X       X       X         Shift MBT, check manual interlock (both sources available)       X       X       X         SALINITY ALARM PANEL       IA       LOA       AMR         Salinity panel meter calibration test       X       X       X         Salinity panel alarm set points       X       X       X         Alarm panel silent alarm test       X       X       X  | before reaching the high speed stop)                          |    |     |       |    |
| Ground check Rubber boots, face shield, shorting probe XX X Indicator lights XX X  ABTs/MBTs IA LOA AMR ABT operation in both automatic and manual modes Shift MBT, check manual interlock (both sources available) XX X  Salinity panel meter calibration test XX X  Salinity panel alarm set points Alarm panel silent alarm test XX X  XX  XX  XX  XX  XX  XX  XX  XX   | Airbox telltale drains, temp alarms                           | X  | X   |       |    |
| Ground check Rubber boots, face shield, shorting probe XX X Indicator lights XX X  ABTs/MBTs IA LOA AMR ABT operation in both automatic and manual modes Shift MBT, check manual interlock (both sources available) XX X  Salinity panel meter calibration test XX X  Salinity panel alarm set points Alarm panel silent alarm test XX X  XX  XX  XX  XX  XX  XX  XX  XX   |   |    |     |       |    |
| Rubber boots, face shield, shorting probe Indicator lights  ABTs/MBTs IA LOA AMR  ABT operation in both automatic and manual modes Shift MBT, check manual interlock (both sources available)  SALINITY ALARM PANEL IA LOA AMR  Salinity panel meter calibration test X X Salinity panel alarm set points Alarm panel silent alarm test X X X  |   |    |     | Nr 2S |    |
| Indicator lights       X       X         ABTs/MBTs       IA       LOA       AMR         ABT operation in both automatic and manual modes       X       X       X         Shift MBT, check manual interlock (both sources available)       X       X       X         SALINITY ALARM PANEL       IA       LOA       AMR         Salinity panel meter calibration test       X       X       X         Salinity panel alarm set points       X       X       X         Alarm panel silent alarm test       X       X       X  |   | ł  |     |       |    |
| ABTs/MBTs  IA LOA AMR  ABT operation in both automatic and manual modes  Shift MBT, check manual interlock (both sources available)  X X  SALINITY ALARM PANEL  IA LOA AMR  Salinity panel meter calibration test  X X  Salinity panel alarm set points  Alarm panel silent alarm test  X X  |   |    |     |       |    |
| ABT operation in both automatic and manual modes  Shift MBT, check manual interlock (both sources available)  SALINITY ALARM PANEL  IA LOA AMR  Salinity panel meter calibration test  X X  Salinity panel alarm set points  Alarm panel silent alarm test  X X  | Indicator lights  | X  | X   |       |    |
| ABT operation in both automatic and manual modes  Shift MBT, check manual interlock (both sources available)  SALINITY ALARM PANEL  IA LOA AMR  Salinity panel meter calibration test  X X  Salinity panel alarm set points  Alarm panel silent alarm test  X X  | A D.T. A A.D.T.   | т. | 101 | AMD   |    |
| Shift MBT, check manual interlock (both sources available)  SALINITY ALARM PANEL  IA LOA AMR  Salinity panel meter calibration test  X X  Salinity panel alarm set points  Alarm panel silent alarm test  X X  |   |    |     | AMK   |    |
| SALINITY ALARM PANEL       IA       LOA       AMR         Salinity panel meter calibration test       X       X         Salinity panel alarm set points       X       X         Alarm panel silent alarm test       X       X  | •   |    |     |       |    |
| Salinity panel meter calibration test X X X Salinity panel alarm set points X X Alarm panel silent alarm test X X  | Shift MB1, check manual interlock (both sources available)    | X  | X   |       |    |
| Salinity panel meter calibration test X X Salinity panel alarm set points X X Alarm panel silent alarm test X X  | SALINITY ALARM PANEL  | IA | LOA | AMR   |    |
| Alarm panel silent alarm test X X  | Salinity panel meter calibration test                         | X  | X   |       |    |
| •  | Salinity panel alarm set points                               | X  | X   |       |    |
| Alarm panel circuit failure test X X   | Alarm panel silent alarm test                                 | X  | X   |       |    |
|  | Alarm panel circuit failure test                              | X  | X   |       |    |

Legend: X - Demonstrate O - Observe

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| ELECTRIC FIRE PUMP  | IA | LOA | Nr 9 |      |      |      |
|---|----|-----|------|------|------|------|
| Local and remote start/stop                                 | X  | X   |      |      |      |      |
| Direction of rotation                                       | X  | X   |      |      |      |      |
| Suction/discharge valve local/remote operation              | X  | X   |      |      |      |      |
| Check valve leakage (no backwards pump rotation)            | X  | X   |      |      |      |      |
| MAIN DRAIN SYSTEM   | IA | LOA | AMR  |      |      |      |
| Align and operate eductors                                  | X  | X   |      |      |      |      |
| Cycle remote operated valves locally                        | X  | X   |      |      |      |      |
| Cycle remote operated valves remotely at port hydrl station | X  | X   |      |      |      |      |
| Cycle remote operated valves remotely at stbd hydrl station | X  | X   |      |      |      |      |
| Bilge suction strainer integrity                            | X  | X   |      |      |      |      |
| VENTILATION   | IA | LOA | AMR  |      |      |      |
| Start/stop and high/low from local station                  | X  | X   |      |      |      |      |
| Start/stop and high/low from remote station                 | X  | X   |      |      |      |      |
| Indicator lights  | X  | X   |      |      |      |      |
| <u> </u>  | 1  |     |      |      |      |      |
| DISTILLING PLANT  | IA | LOA | Nr 5 |      |      |      |
| All pumps operating correctly                               | X  | X   |      |      |      |      |
| Dump valve automatic function                               | X  | X   |      |      |      |      |
| Operating in parameters (temp/press/salinity)               | X  |     |      |      |      |      |
| Salinity cell/dump valve set points                         | X  | X   |      |      |      |      |
| Ameroyal system operation                                   | X  | X   |      |      |      |      |
| HIGH CAPACITY LP AIR SYSTEMS                                | IA | LOA | Nr 1 | Nr 2 |      |      |
| Compressor operation within parameters                      | X  | X   |      |      |      |      |
| Compressor low lube oil pressure shut down                  | X  | X   |      |      |      |      |
| Compressor low lube oil pressure start-up time delay        | X  | X   |      |      |      |      |
| Compressor lube oil high temp alarm                         | X  | X   |      |      |      |      |
| Compressor lube oil high temp shutdown                      | X  | X   |      |      |      |      |
| Compressor low lube oil level shutdown                      | X  | X   |      |      |      |      |
| Shift saltwater duplex strainer                             | X  | X   |      |      |      |      |
| Dehydrator operation within parameters (dewpoint)           | X  | X   |      |      |      |      |
| Dehydrator not on bypass or cutout, alarms not cutout       | X  | X   |      |      |      |      |
| Low air pressure alarm                                      | X  | X   |      |      |      |      |
| Inspect lube oil sample, sump level, dipstick markings      | X  | X   |      |      |      |      |
| FUEL OIL TRANSFER PUMPS                                     | IA | LOA | Nr 3 | Nr 4 | Nr 5 | Nr 6 |
| Align and perform token fuel oil transfer                   | X  | X   |      |      |      |      |
| AIR PILOT/DIAPHRAGM OPERATED VALVES                         | IA | LOA | AMR  |      |      |      |

Legend: X - Demonstrate O - Observe - Check is not required or does not apply.

Manually stroke, check for binding

X

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| STERN TUBE SEALS  | IA | LOA | Nr 1 | -  | Nr 2 | Nr 3 | 3  | Nr 4 |
|---|----|-----|------|----|------|------|----|------|
| Stern tube flushing and cooling water supply, filtering system, | X  | X   |      |    |      |      |    |      |
| and leak-by   |    |     |      |    |      |      |    |      |
| Inflatable seal/CO2 supply                                      | X  | X   |      |    |      |      |    |      |
| Inflatable seal operation IAW PMS                               | X  | X   |      |    |      |      |    |      |
| Test shaft seal low flow alarm                                  | X  | X   |      |    |      |      |    |      |
| AUXILIARY THRUST BEARINGS                                       | IA | LOA | Nr 1 |    | Nr 2 | Nr 3 | 3  | Nr 4 |
| Inspect lube oil sample, sump level, dipstick markings          | X  | X   |      |    |      |      |    |      |
| Security seals, labels (IC, DC, date), oiler ring inspection    | X  | X   |      |    |      |      |    |      |
| LINE SHAFT BEARINGS (NR 1 SHAFT)                                | IA | LOA | 1A   | 1B | 1C   | 1D   | 1E | 1F   |
| Inspect lube oil sample, sump level, dipstick markings          | X  | X   |      |    |      |      |    |      |
| Security seals, labels (IC, date), oiler ring inspection        | X  | X   |      |    |      |      |    |      |
| LINE SHAFT BEARINGS (NR 2 SHAFT)                                | IA | LOA | 2A   | 2B | 2C   | 2D   | 2E | _    |
| Inspect lube oil sample, sump level, dipstick markings          | X  | X   |      |    |      |      |    |      |
| Security seals, labels (IC, date), oiler ring inspection        | X  | X   |      |    |      |      |    |      |
| LINE SHAFT BEARINGS (NR 3 SHAFT)                                | IA | LOA | 3A   | 3B | 3C   | _    |    |      |
| Inspect lube oil sample, sump level, dipstick markings          | X  | X   |      |    |      |      |    |      |
| Security seals, labels (IC, date), oiler ring inspection        | X  | X   |      |    |      |      |    |      |
| LINE SHAFT BEARINGS (NR 4 SHAFT)                                | IA | LOA | 4A   | 4B | 4C   | 4D   | 4E | _    |
| Inspect lube oil sample, sump level, dipstick markings          | X  | X   |      | •  |      |      |    |      |
| Security seals, labels (IC, date), oiler ring inspection        | X  | X   |      |    |      |      |    |      |

Legend: X - Demonstrate

### **CV-67 Emergency Diesel Rooms Representative Hot & Cold Checks/Tests**

| DAMAGE CONTROL  | IA         | LOA        | Nr 1  | Nr 2  |
|---|------------|------------|-------|-------|
| Halon MRC Q-1R demonstration                                  | X          | X          |       |       |
| Halon MRC 18M-3R demonstration                                | X          | X          |       |       |
| Halon bottle cali stickers, pressure, piping/nozzle integrity | X          | X          |       |       |
| Halon actuation station integrity (local and remotes)         | X          | X          |       |       |
| AFFF hosereel/nozzle operation/activation stations            | X          | X          |       |       |
| AFFF space cutout valves locked open                          | X          | X          |       |       |
|   |            |            |       |       |
| EMERGENCY GENERATORS  | IA         | LOA        | Nr 1  | Nr 2  |
| "Drop test", ability to assume load                           | X          | X          |       |       |
| Manual trip   | X          | X          |       |       |
| Overspeed trip  | X          | X          |       |       |
| Low lube oil pressure alarm                                   | X          | X          |       |       |
| Lube oil high temp alarm                                      | X          | X          |       |       |
| Remote shutdown device  | X          | X          |       |       |
| JW high temp alarm  | X          | X          |       |       |
| Salt water circ pump operation                                | X          | X          |       |       |
| Emergency salt water reducing station operation               | X          | X          |       |       |
| Barring device lockout  | X          | X          |       |       |
| Pedestal bearing high temp alarm                              | X          | X          |       |       |
| Pre-lube pump operation                                       | X          | X          |       |       |
| Test jacket water   | X          | X          |       |       |
| Test lube oil for fuel oil dilution and acidity; inspect sump | X          | X          |       |       |
| level, dipstick markings                                      |            |            |       |       |
| Generator operating at normal temperatures & pressures under  | X          | X          |       |       |
| load (minimum of 60%)   |            |            |       |       |
| Day tank level  | X          | X          |       |       |
|   |            |            |       |       |
| EMERGENCY SWITCHBOARDS  | IA         | LOA        | Nr 1E | Nr 2E |
| Ground check  | X          | X          |       |       |
| Rubber boots, face shield, shorting probe                     | X          | X          |       |       |
| Indicator lights  | X          | X          |       |       |
|   | <b>-</b> . |            |       |       |
| ABT/MBT   | IA         | LOA        | Nr 1  | Nr 2  |
| ABT operation in both automatic and manual modes              | X          | X          |       |       |
| Shift MBT, check manual interlock (both sources available)    | X          | X          |       |       |
| VENTILATION   | IA         | LOA        | Nr 1  | Nr 2  |
| Start/stop and high/low from local station                    | X          | X          | 1,1.1 | 1112  |
| Start/stop and high/low from remote station                   | X          | X          |       |       |
| Indicator lights  | X          | X          |       |       |
| 1110100101 115110   | <b>41</b>  | <b>4 1</b> | j .   |       |

Legend: X - Demonstrate O - Observe

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## CV-67 Pump Room Nr 1 (7-48-0-E) Representative Hot & Cold Checks/Tests

| DAMAGE CONTROL  | IA | LOA | 1 PR |      |      |
|---|----|-----|------|------|------|
| Halon MRC Q-1R demonstration                                  | X  | X   |      |      |      |
| Halon MRC 18M-3R demonstration                                | X  | X   |      |      |      |
| Halon bottle cali stickers, pressure, piping/nozzle integrity | X  | X   |      |      |      |
| Halon actuation station integrity (local and remotes)         | X  | X   |      |      |      |
| AFFF bilge sprinkling piping/nozzle integrity                 | X  | X   |      |      |      |
| AFFF hosereel/nozzle operation/activation stations            | X  | X   |      |      |      |
| AFFF space cutout valves locked open                          | X  | X   |      |      |      |
| Ellison door closure/Escape trunk lighting/integrity          | X  | X   |      |      |      |
|   |    |     |      |      |      |
| MAIN DRAIN SYSTEM   | IA | LOA | 1 PR | ı    |      |
| Align and operate eductors                                    | X  | X   |      |      |      |
| Cycle remote operated valves locally                          | X  | X   |      |      |      |
| Cycle remote operated valves remotely at port hydrl station   | X  | X   |      |      |      |
| Cycle remote operated valves remotely at stbd hydrl station   | X  | X   |      |      |      |
| Bilge suction strainer integrity                              | X  | X   |      |      |      |
|   |    |     |      |      |      |
| ELECTRIC FIRE PUMPS/ MAIN DRAIN SYSTEM                        | IA | LOA | Nr 1 | Nr 2 | Nr 3 |
| Local & remote start/stop                                     | X  | X   |      |      |      |
| Suction/discharge valve local operation                       | X  | X   |      |      |      |
| Check-valve back leakage (no backwards pump rotation)         | X  | X   |      |      |      |
|   |    |     |      |      |      |
| ABT/MBT   | IA | LOA | 1 PR | 1    |      |
| ABT operation in both automatic and manual modes              | X  | X   |      |      |      |
| Shift MBT, check manual interlock (both sources available)    | X  | X   |      |      |      |
|   |    |     |      |      |      |
| VENTILATION   | IA | LOA | 1 PR | 1    |      |
| Start/stop and high/low from local station                    | X  | X   |      |      |      |
| Start/stop and high/low from remote station                   | X  | X   |      |      |      |
| Indicator lights  | X  | X   |      |      |      |

 $Legend{:}\ X \ - \ Demonstrate$ 

O - Observe

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## CV-67 Pump Room Nr 2 (7-78-0-E) Representative Hot & Cold Checks/Tests

| DAMAGE CONTROL  | IA | LOA | 2 PR |   |     |   |    |
|---|----|-----|------|---|-----|---|----|
| Halon MRC Q-1R demonstration                                  | X  | X   |      |   |     |   |    |
| Halon MRC 18M-3R demonstration                                | X  | X   |      |   |     |   |    |
| Halon bottle cali stickers, pressure, piping/nozzle integrity | X  | X   |      |   |     |   |    |
| Halon actuation station integrity (local and remotes)         | X  | X   |      |   |     |   |    |
| AFFF bilge sprinkling piping/nozzle integrity                 | X  | X   |      |   |     |   |    |
| AFFF hosereel/nozzle operation/activation stations            | X  | X   |      |   |     |   |    |
| AFFF space cutout valves locked open                          | X  | X   |      |   |     |   |    |
| Ellison door closure/Escape trunk lighting/integrity          | X  | X   |      |   |     |   |    |
| MAIN DRAIN SYSTEM   | IA | LOA | 2 PR |   |     |   |    |
| Align and operate eductors                                    | X  | X   |      |   |     |   |    |
| Cycle remote operated valves locally                          | X  | X   |      |   |     |   |    |
| Cycle remote operated valves remotely at hydrl station        | X  | X   |      |   |     |   |    |
| Bilge suction strainer integrity                              | X  | X   |      |   |     |   |    |
| ELECTRIC FIRE PUMPS   | IA | LOA | 4    | 5 | 5A  | 6 | 6A |
| Local & remote start/stop                                     | X  | X   |      |   |     |   |    |
| Suction/discharge valve local/remote operation                | X  | X   |      |   |     |   |    |
| Check-valve back leakage (no backwards pump rotation)         | X  | X   |      |   |     |   |    |
| FUEL OIL TRANSFER PUMPS                                       | IA | LOA | Nr 1 | N | r 2 |   |    |
| Align and perform token fuel oil transfer                     | X  | X   |      |   |     |   |    |
|   |    |     |      |   |     |   |    |
| ELECTRIC FO STRIPPING PUMP                                    | IA | LOA | Nr 1 | _ |     |   |    |
| Align and perform token stripping of FO service tank          | X  | X   |      |   |     |   |    |
| Align and perform token pumping of bilge                      | X  | X   |      |   |     |   |    |
| ABT/MBT   | IA | LOA | 2 PR |   |     |   |    |
| ABT operation in both automatic and manual modes              | X  | X   |      |   |     |   |    |
| Shift MBT, check manual interlock (both sources available)    | X  | X   |      |   |     |   |    |
| VENTILATION   | IA | LOA | 2 PR |   |     |   |    |
| Start/stop and high/low from local station                    | X  | X   |      |   |     |   |    |
| Start/stop and high/low from remote station                   | X  | X   |      |   |     |   |    |
| Indicator lights  | X  | X   |      |   |     |   |    |

Legend: X - Demonstrate

O - Observe

## CV-67 Pump Room Nr 3 (7-185-0-E) Representative Hot & Cold Checks/Tests

| DAMAGE CONTROL  | IA | LOA | 3 PR |    |     |    |     |
|---|----|-----|------|----|-----|----|-----|
| Halon MRC Q-1R demonstration                                  | X  | X   |      |    |     |    |     |
| Halon MRC 18M-3R demonstration                                | X  | X   |      |    |     |    |     |
| Halon bottle cali stickers, pressure, piping/nozzle integrity | X  | X   |      |    |     |    |     |
| Halon actuation station integrity (local and remotes)         | X  | X   |      |    |     |    |     |
| AFFF bilge sprinkling piping/nozzle integrity                 | X  | X   |      |    |     |    |     |
| AFFF hosereel/nozzle operation/activation stations            | X  | X   |      |    |     |    |     |
| AFFF space cutout valves locked open                          | X  | X   |      |    |     |    |     |
| Ellison door closure/Escape trunk lighting/integrity          | X  | X   |      |    |     |    |     |
| MAIN DRAIN SYSTEM   | IA | LOA | 3 PR |    |     |    |     |
| Align and operate eductors                                    | X  | X   |      |    |     |    |     |
| Cycle remote operated valves locally                          | X  | X   |      |    |     |    |     |
| Cycle remote operated valves remotely at hydrl station        | X  | X   |      |    |     |    |     |
| Bilge suction strainer integrity                              | X  | X   |      |    |     |    |     |
| ELECTRIC FIRE PUMPS   | IA | LOA | 12   | 13 | 13A | 14 | 14A |
| Local & remote start/stop                                     | X  | X   |      |    |     |    |     |
| Suction/discharge valve local/remote operation                | X  | X   |      |    |     |    |     |
| Check-valve back leakage (no backwards pump rotation)         | X  | X   |      |    |     |    |     |
| FUEL OIL TRANSFER PUMPS                                       | IA | LOA | Nr 7 | Nr | 8   |    |     |
| Align and perform token fuel oil transfer                     | X  | X   |      |    |     |    |     |
| ELECTRIC FO STRIPPING PUMP                                    | IA | LOA | Nr 2 |    |     |    |     |
| Align and perform token stripping of FO service tank          | X  | X   |      |    |     |    |     |
| Align and perform token pumping of bilge                      | X  | X   |      |    |     |    |     |
| ABT/MBT   | IA | LOA | 3 PR |    |     |    |     |
| ABT operation in both automatic and manual modes              | X  | X   |      |    |     |    |     |
| Shift MBT, check manual interlock (both sources available)    | X  | X   |      |    |     |    |     |
| VENTILATION   | IA | LOA | 3 PR |    |     |    |     |
| Start/stop and high/low from local station                    | X  | X   |      |    |     |    |     |
| Start/stop and high/low from remote station                   | X  | X   |      |    |     |    |     |
| Indicator lights  | X  | X   |      |    |     |    |     |

N7414

### **CV-67 Pump Room Nr 5 (7-205-01-E) Representative Hot & Cold Checks/Tests**

| DAMAGE CONTROL  | IA | LOA | 5 PR |    |    |
|---|----|-----|------|----|----|
| Halon MRC Q-1R demonstration                                  | X  | X   |      |    |    |
| Halon MRC 18M-3R demonstration                                | X  | X   |      |    |    |
| Halon bottle cali stickers, pressure, piping/nozzle integrity | X  | X   |      |    |    |
| Halon actuation station integrity (local and remotes)         | X  | X   |      |    |    |
| AFFF bilge sprinkling piping/nozzle integrity                 | X  | X   |      |    |    |
| AFFF hosereel/nozzle operation/activation stations            | X  | X   |      |    |    |
| AFFF space cutout valves locked open                          | X  | X   |      |    |    |
| Ellison door closure/Escape trunk lighting/integrity          | X  | X   |      |    |    |
|   |    |     |      |    |    |
| MAIN DRAIN SYSTEM   | IA | LOA | 5 PR |    |    |
| Align and operate eductors                                    | X  | X   |      |    |    |
| Cycle remote operated valves locally                          | X  | X   |      |    |    |
| Cycle remote operated valves remotely at port hydrl station   | X  | X   |      |    |    |
| Cycle remote operated valves remotely at stbd hydrl station   | X  | X   |      |    |    |
| Bilge suction strainer integrity                              | X  | X   |      |    |    |
|   |    |     |      |    |    |
| ELECTRIC FIRE PUMPS   | IA | LOA | 15   | 16 | 17 |
| Local & remote start/stop                                     | X  | X   |      |    |    |
| Suction/discharge valve local operation                       | X  | X   |      |    |    |
| Check-valve back leakage (no backwards pump rotation)         | X  | X   |      |    |    |
|   |    |     |      |    |    |
| ABT/MBT   | IA | LOA | 5 PR |    |    |
| ABT operation in both automatic and manual modes              | X  | X   |      |    |    |
| Shift MBT, check manual interlock (both sources available)    | X  | X   |      |    |    |
|   |    |     |      |    |    |
| VENTILATION   | IA | LOA | 5 PR |    |    |
| Start/stop and high/low from local station                    | X  | X   |      |    |    |
| Start/stop and high/low from remote station                   | X  | X   |      |    |    |
| Indicator lights  | X  | X   |      |    |    |

Legend: X - Demonstrate

O - Observe